MULTIMODAL INVESTMENT CHOICE ANALYSIS (MICA)

BRIEFING PAPER

Prepared for the November 2002 TRANSPORTATION COMMISSION MEETING

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PURPOSE:

To brief the Commission on a work plan for addressing Section 401 of ESHB 2304, the Transportation Efficiencies bill. This includes developing a common methodology for addressing cost benefit analysis components between modes and further refinements of identified gaps in the Multimodal Investment Choice Analysis (MICA) Model.

ACTION/OUTCOME:

The Commission will not be required to take action. In August 2002, the Commission directed WSDOT staff to develop a work plan that would address:

- 1) Developing a consistent methodology for addressing cost benefit analysis between modes; and
- 2) Identifying the effort required to complete the gap analysis identified within MICA.

The expected outcome is a clarification of the cost to implement a work plan to address this section of ESHB 2304.

BACKGROUND:

On July 1, 2002, the Transportation Efficiencies bill, ESHB 2304, took effect. The bill instructs the department to "develop analytical tools that use a common methodology to measure benefit and costs for all modes." (RCW 47.05.010). This requirement is to be phased in over time. If Referendum 51 had been enacted, a \$65,000 appropriation would have been provided to populate the MICA model with data from WSDOT's existing program, for a test of the software.

DISCUSSION:

Referendum 51 was not approved by the voters.

Timeline:

ESHB 2304 requires this work element to be phased in. If Referendum 51 had received a positive vote, or new revenue is made available most WSDOT improvement projects have been programmed or identified for several years. The earliest use of programmatic trade-off choices from MICA or in general would likely be in preparation for future revenue proposals.

Referendum 51's negative vote, the shortage of current revenues, coupled with long standing expectations for delivering identified projects limits the implementation of programmatic trade-off choices for several years.

Under either scenario, the application of this effort should not be expected to yield results for another five or six years at the earliest.

Work Element	Positive Referendum 51 Vote	Negative Referendum
		51 Vote
1. Cost benefit analysis	Upon Commission direction,	Upon Commission
between modes:	staff would have recommended	direction, staff
	providing funding for:	recommends:
In the August 2000	Staffing that could have lead	A substantially
briefing, the MICA	this effort both technically	reduced level to
study revealed several	and in terms of building	lead the effort both
differences on how the	consensus among the	technically and in
model and programs	different modal programs.	terms of building
have developed their	A retainer with TRAC	consensus among
respective cost benefit	to provide expertise and	the different modal
analysis methods.	troubleshooting as required.	programs.
		This level of
Differences found	This work effort would have	effort would
include:	been for one biennium. The	result in a longer
 Assignment of wage 	results of this effort could have	phase-in period
rates (related to cost	been incorporated into the	of two or three
of delay);	program management structure	biennia before the
 Discount rates 	for inclusion in future project	trade-off choices
between highways	selections.	could be used for
and ferries;		programmatic
 Project life cycles; 	Estimated cost: \$350,000 to	decision making.
• Etc.	\$400,000 for one biennium.	

Work Element	Positive Referendum 51 Vote	Negative Referendum
2. Gap Analysis Identified	Populate the MICA model and	There is no revenue
		51 Vote
locations, signal / channelization, etc.) • Need for local non-motorized use data to determine the benefits of non-motorized projects instead of using national defaults.	may be more efficient to use an estimated value, rather than spend resources on a protracted search for the exact value. This is particularly significant if a subcomponent's measurement will not substantively alter the model's overall analysis output. • True gaps will then be pursued for further refinement. An estimated cost is \$65,000 to populate and test the MICA model.	

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